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Title: JP10031997A2: BATTERY

Derwent Title: Battery with non-aqueous electrolyte used in portable equipment such as video camera, portable telephone, notebook type PC - has heat absorption substance containing battery vessel, made to protrude towards open air
[\[Derwent Record\]](#)

Country: JP Japan

Kind: A

Inventor: TANIGUCHI MASAHIDE;
 NAKANISHI MEGUMI;
 HASHISAKA KAZUHIKO;

Assignee: TORAY IND INC
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Published / Filed: 1998-02-03 / 1996-07-18

Application Number: JP1996000189337

IPC Code: H01M 2/34; H01M 10/40;

Priority Number: 1996-07-18 JP1996000189337

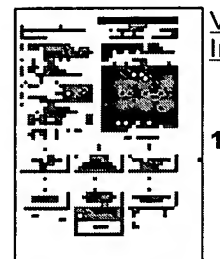
Abstract: PROBLEM TO BE SOLVED: To provide a highly safe battery with high capacity by making a material which absorbs heat by the contact with the outside air present in at least a part of the part making contact with a battery vessel.

SOLUTION: In this battery, an electrode body 5 having a positive electrode lead 4 and a negative electrode lead 6 is housed in a battery can 3, and the opening part of the can 3 is sealed by a sealing body 1 through a sealant 2. As the structure of the sealing body 1, for example, a heat absorbing material tank 12 having fleon 113 sealed therein is provided on the lower surface of the layered body of a cap 11 having a hole 10, a PTC element 7, a pressure releasing plate 8 having a heat absorbing material opening part 13 and an insulating plate 9. When the battery is broken, the release part 13 slips out, and the fluorocarbon 113 is evaporated to absorb heat as soon as it is exposed to the outside air. Therefore, even if there should be a heating that the energy possessed by the battery in charged state is released to the outside by a short circuit, the rise of the battery temperature can be suppressed, and firing can be prevented.

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Family: None

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References:

PDF	Patent	Pub.Date	Inventor	Assignee	Title
	US6586912	2003-07-01	Tsakamoto; Hisashi	Quallion LLC	Method and apparatus for amplitude limiting battery temperature spikes

Other Abstract
Info:

DERABS G98-165433 DERG98-165433

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(11) Publication number:

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PATENT ABSTRACTS OF JAPAN(21) Application number: **08189337**(51) Intl. Cl.: **H01M 2/34 H01M 10/40**(22) Application date: **18.07.96**

(30) Priority:

(71) Applicant: **TORAY IND INC**(43) Date of application publication: **03.02.98**(72) Inventor: **TANIGUCHI MASAHIRO
NAKANISHI MEGUMI
HASHISAKA KAZUHIKO**

(84) Designated contracting states:

(74) Representative:

(54) BATTERY

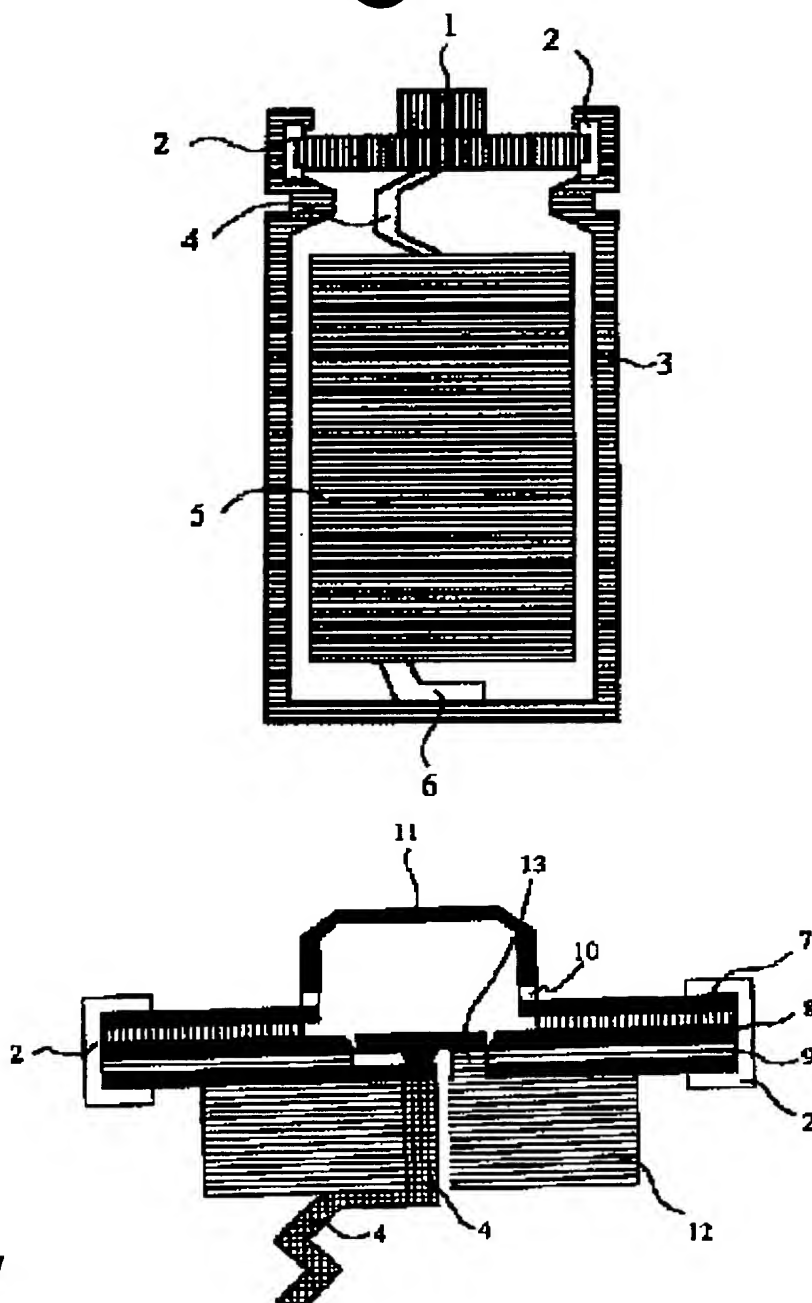
(57) Abstract:

PROBLEM TO BE SOLVED: To provide a highly safe battery with high capacity by making a material which absorbs heat by the contact with the outside air present in at least a part of the part making contact with a battery vessel.

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